



552-16-203 REPLACE SPRINKLER HEADS AT THE DAYTON VA MEDICAL CENTER

DAYTON VA MEDICAL CENTER
4100 W 3RD ST,
DAYTON, OHIO 45428



PROJECT TEAM

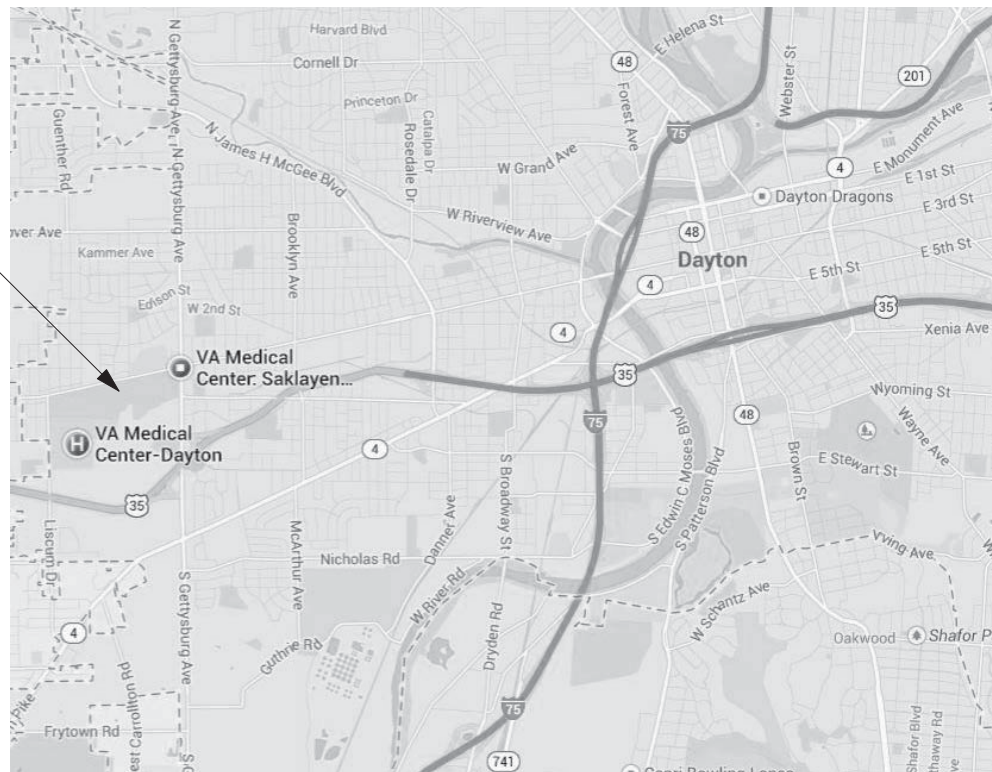
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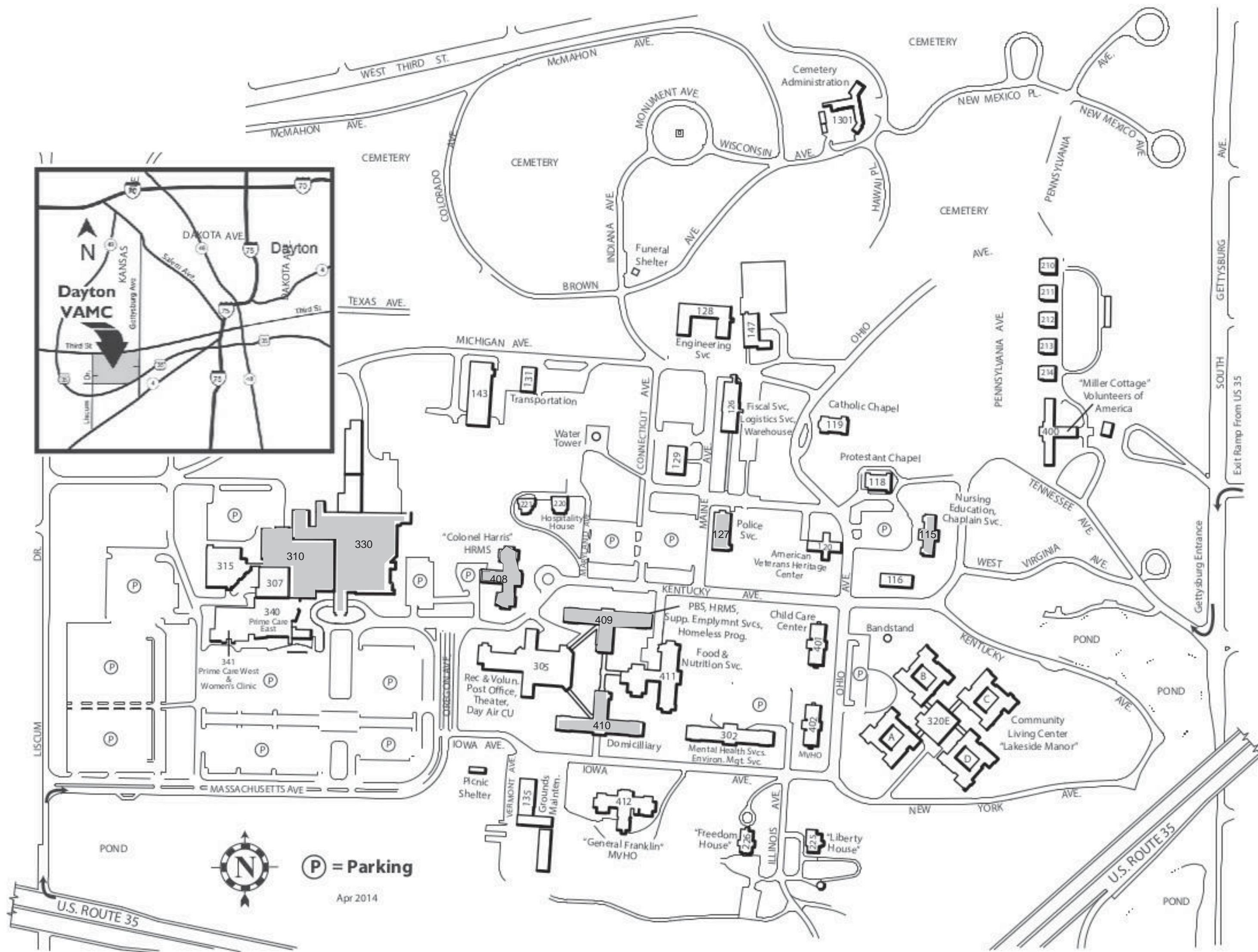
FIRE PROTECTION ENGINEER

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VICINITY MAP
Scale: N.T.S.



CAMPUS MAP
Scale: N.T.S.

DRAWING INDEX

SHEET NUMBER	SHEET TITLE
GENERAL	
GI001	TITLE SHEET
GI002	DRAWING STANDARDS
FIRE PROTECTION	
FX001	LEGEND & SYMBOLS
115FX100	BASEMENT PLAN - NEW WORK
127FX100	BASEMENT & ATTIC PLANS - NEW WORK
310FX101	FIRST FLOOR PLAN - NEW WORK
310FX102	SECOND FLOOR PLAN - NEW WORK
310FX103	THIRD FLOOR PLAN - NEW WORK
310FX104	FOURTH FLOOR PLAN - NEW WORK
330FX101	FIRST FLOOR PLAN - NEW WORK
330FX102	SECOND FLOOR PLAN - NEW WORK
330FX105	FIFTH FLOOR PLAN - NEW WORK
330FX106	SIXTH FLOOR PLAN - NEW WORK
330FX107	SEVENTH FLOOR PLAN - NEW WORK
330FX108	EIGHTH FLOOR PLAN - NEW WORK
330FX109	NINTH FLOOR PLAN - NEW WORK
408FX100	FIRST FLOOR PLAN - NEW WORK
409FX100	BASEMENT PLAN - NEW WORK
409FX101	FIRST FLOOR PLAN - NEW WORK
409FX102	SECOND FLOOR PLAN - NEW WORK
409FX103	THIRD FLOOR PLAN - NEW WORK
410FX100	BASEMENT PLAN - NEW WORK

FOR CONSTRUCTION

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FIRE SUPPRESSION DESIGN NOTES

- A PROVIDE A COMPLETE FIRE SUPPRESSION SPRINKLER SYSTEM IN THE AREAS INDICATED ON THE DRAWINGS.
- B DESIGN SERVICES SHALL FOLLOW ALL VA STANDARD DESIGN PRACTICES, DETAILS, SPECIFICATIONS AND SITE SPECIFIC COR REQUIREMENTS AS WELL AS WORK SHOWN ON THESE DOCUMENTS. ALL DEVIATIONS FROM AFOREMENTIONED REQUIREMENTS SHALL BE APPROVED BY THE COR.
- C VERIFY THAT THERE IS ADEQUATE SPACE TO INSTALL ALL NEW PIPING REQUIRED TO COMPLETE THIS WORK WHERE APPLICABLE.
- D ALL SPRINKLER PIPING IS LOCATED ABOVE THE CEILING (AT THE BOTTOM OF STRUCTURE IN EXPOSED STRUCTURAL AREAS) UNLESS OTHERWISE INDICATED.
- E THE BASIS OF DESIGN OF SPACING AND SIZING FOR THE COMPLETE FIRE SUPPRESSION SPRINKLER SYSTEM IS FOR A WET PIPE SYSTEM HYDRAULICALLY CALCULATED FOR A:
- 1 LIGHT HAZARD AREA LIMITED TO A MAXIMUM OF 225 SQ. FT. PER SPRINKLER WITH THE DENSITY OF 0.10 GPM/SQ. FT. OVER THE MOST REMOTE 1500 SQ. FT. PROVIDE AN ADDITION OF 100 GPM HOSE ALLOWANCE.
- 2 ALL MECHANICAL, ELECTRICAL, AND ETC. AREAS SHALL BE ORDINARY HAZARD (GROUP 1) LIMITED TO A MAXIMUM OF 130 SQ. FT. PER SPRINKLER WITH A DENSITY OF 0.15 GPM/SQ. FT. PROVIDE AN ADDITION OF 250 GPM HOSE ALLOWANCE.
- 3 ALL STORAGE, TRASH, FILE STORAGE AND ETC. AREAS SHALL BE ORDINARY HAZARD (GROUP 2) LIMITED TO A MAXIMUM OF 130 SQ. FT. PER SPRINKLER WITH A DENSITY OF 0.20 GPM/SQ. FT. PROVIDE AN ADDITION OF 250 GPM HOSE ALLOWANCE.
- *NOTE: BLDG. 127 ATTIC SYSTEM IS A DRY-PIPE TYPE SYSTEM.
- F ALL SPRINKLER LOCATIONS AND RELATED PIPING SHALL BE BY THE DIVISION 21 CONTRACT.
- G THE ENTIRE SPRINKLER SYSTEM SHALL CONFORM TO VAMC, LOCAL, STATE AND NFPA STANDARDS, RULES AND REGULATIONS.
- H THE DIVISION 21 CONTRACT SHALL VERIFY THE LOCATION OF ALL LIGHTING FIXTURES AND AIR DEVICES BEFORE INSTALLATION OF SPRINKLERS.
- I ALL SPRINKLER PIPING LAYOUT AND SIZING SHALL BE BY THE DIVISION 21 CONTRACT.
- J THE DIVISION 21 CONTRACT SHALL LAY OUT SYSTEMS AND OBTAIN APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION PRIOR TO BEGINNING ANY FABRICATION OR INSTALLATION WORK.
- K SPRINKLER PIPING SHALL BE MINIMUM 1" SIZE.
- L SPRINKLERS (UNLESS OTHERWISE NOTED): EXPOSED AREAS - UPRIGHT OR PENDENT TYPE - STANDARD BRASS CEILING AREAS - RECESSED PENDENT TYPE OR AS INDICATED. ALL HEADS SHALL BE UL LISTED AND FM APPROVED.
- M ALL EXISTING SMOKE COMPARTMENTS SHALL BE MAINTAINED. ALL NEW SPRINKLER ZONES SHALL MATCH SMOKE COMPARTMENTS.
- N REFER TO GENERAL REQUIREMENTS SPECIFICATION FOR RULES AND REGULATIONS GOVERNING SYSTEM OUTAGES AND DOWNTIME.

VALVES AND FITTINGS

DOUBLE LINE	SINGLE LINE	
		CHECK VALVE
BALL VALVE		SHUTOFF VALVE (REFER TO SPECIFICATIONS FOR REQUIRED TYPE BASED ON APPLICATIONS)
BUTTERFLY VALVE		
GATE VALVE		COMBINATION SHUTOFF AND BALANCING VALVE (REFER TO SPECIFICATIONS FOR REQUIRED TYPE BASED ON APPLICATIONS)
		CONCENTRIC PIPE REDUCER
		ECCENTRIC PIPE REDUCER
		PRESSURE GAUGE
		TEMPERATURE GAUGE OR THERMOMETER
		UNION
		CLEANOUT
		STRAINER
		STRAINER WITH A BLOW DOWN VALVE AND HOSE CONNECTION
		DRAIN VALVE WITH HOSE END CONNECTION
		AUTOMATIC FLOW CONTROLLER WITH P/T PLUG IN AND OUT
		EXPANSION JOINT
		PRESSURE REGULATING VALVE
		SAFETY RELIEF VALVE - PIPE DISCHARGE AIR GAPPED TO FLOOR DRAIN UNLESS NOTED OTHERWISE
		PRESSURE AND TEMPERATURE TEST PLUG
		TRAP PRIMER
		VACUUM GAUGE WITH STOP
		CLEANOUT TO GRADE OR FINISHED FLOOR
		END CAP
		MIXING FAUCET
		PLUG
		HOSE BIB
		WALL HYDRANT
		PLUG VALVE
		SHUTOFF VALVE AND BOX
		SHUTOFF VALVE ON RISER
		SOLENOID VALVE
		WATER METER

PLUMBING AND FIRE SUPPRESSION PIPING DESIGNATIONS

	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
	EXISTING PIPE TO REMAIN
	EXISTING PIPE TO BE REMOVED
140	HOT WATER PIPE (140 DEGS. F.)
180	HOT WATER PIPE (180 DEGS. F.)
140R	HOT WATER RETURN PIPE (140 DEGS. F.)
180R	HOT WATER RETURN PIPE (180 DEGS. F.)
AR	ARGON PIPE
AV	ACID VENT PIPE
AW	ACID WASTE PIPE
CA	COMPRESSED AIR PIPE
CA	MEDICAL CARBON DIOXIDE PIPE
CWS	COMBINATION FIRE SUPPRESSION AND DOMESTIC WATER SERVICE
DF	DIESEL FUEL PIPE
DS	SPRINKLER PIPE (DRY)
F	FIRE SUPPRESSION (STANDPIPE / SPRINKLER MAIN)
FS	FIRE SERVICE
FOF	FUEL OIL FLOW LINE
FOG	FUEL OIL GAUGE LINE
FOR	FUEL OIL RETURN LINE
FOS	FUEL OIL SUPPLY LINE
G	NATURAL GAS PIPE
GD	GARAGE DRAINAGE PIPE
GS	GAS SERVICE
H2	HYDROGEN PIPE
HE	HELIUM PIPE
IA	MEDICAL INSTRUMENT AIR PIPE
IV	INDIRECT VENT PIPE
IW	INDIRECT WASTE PIPE
K	KITCHEN WASTE PIPE
LA	LABORATORY COMPRESSED AIR PIPE
LV	LABORATORY VACUUM PIPE
LV	LABORATORY VENT PIPE
LW	LABORATORY WASTE PIPE
MA	MEDICAL COMPRESSED AIR PIPE
MV	MEDICAL-SURGICAL VACUUM PIPE
N2	MEDICAL NITROGEN PIPE
NG	GASOLINE PIPE (NON-LEAD)
NO	MEDICAL NITROUS OXIDE PIPE
NPW	NON-POTABLE WATER
O2	MEDICAL OXYGEN PIPE
OD	(OVERFLOW) SECONDARY STORM DRAINAGE PIPE
P	PROPANE GAS PIPE
PD	PUMP DISCHARGE PIPE
PS	PRE-ACTION / DELUGE SPRINKLER PIPE
PW	PURE WATER PIPE
S	SPRINKLER PIPE (WET)
SAN	SANITARY DRAINAGE PIPE
SCW	SOFT COLD WATER
SD	SPRINKLER DRAIN PIPE
STM	STORM DRAINAGE PIPE
T	FUEL TANK VENT PIPE
TP	TRAP PRIMER DISCHARGE PIPE
TW	TEMPERED WATER PIPE
V	SANITARY SEWER VENT
WAGD	WASTE ANESTHESIA GAS DISPOSAL PIPE
WS	WATER SERVICE

GENERAL FLOOR PLAN NOTES

	ELEV. 8' - 0"	APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO CENTERLINE OF PIPE, UNLESS NOTED OTHERWISE
	TOE: 3' - 0"	APPROXIMATE DIMENSION ABOVE FINISHED FLOOR TO TOP OR BOTTOM OF EQUIPMENT, UNLESS NOTED OTHERWISE
	BOE: 0' - 6"	
	②	RISER OR STACK NUMBER
	B P2	DETAIL: B = DETAIL DESIGNATION P2 = SHEET WHERE DETAIL IS LOCATED
	1 P2	SECTION: 1 = SECTION DESIGNATION P2 = SHEET WHERE DETAIL IS LOCATED
	1 P2	FIRE SUPPRESSION HAZARD CLASSIFICATION AND HAZARD DESIGNATION GROUP
	P1 OR P1	EQUIPMENT REFERENCE - LETTER DESIGNATION VARIES - REFER TO SCHEDULES
	A1	EQUIPMENT, DEVICE, OR PLUMBING FIXTURE MARK - LETTER DESIGNATIONS REFER TO SCHEDULES
	⊕	CONNECT TO EXISTING
	③	PLAN NOTE - APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN UNLESS NOTED OTHERWISE.
	③	DETAIL NOTE - APPLIES ONLY TO THE ASSOCIATED DETAIL.
	⌈A1	"UP TO" SYMBOL (ITEM ON FLOOR ABOVE)

FIRE SUPPRESSION SYMBOLS

DOUBLE LINE	SINGLE LINE	
		CONCEALED PENDENT SPRINKLER
		FIRE DEPARTMENT VALVE
		FIRE HYDRANT
		FLOW SWITCH
		GATE VALVE OS&Y
		INSTITUTIONAL PENDENT SPRINKLER
		PENDENT SPRINKLER
		POST INDICATOR VALVE
		RECESSED PENDENT SPRINKLER
		SIDE WALL SPRINKLER
		SUPERVISED VALVE
		UPRIGHT SPRINKLER

PIPING SYMBOLS

DOUBLE LINE	SINGLE LINE	
		BOTTOM CONNECTION (45°)
		BOTTOM CONNECTION (90°)
		BRANCH TEE CONNECTION (NOTE: BULL HEAD TEES ARE NOT PERMITTED.)
		DIRECTION OF PITCH
		DROP
		ELBOW DOWN
		ELBOW UP
		EXISTING PIPE TO BE REMOVED
		EXISTING PIPE TO REMAIN
		FLOW DIRECTION DESIGNATION
		PIPE RISER
		PUMP
		RISE
		TOP CONNECTION (45°)
		TOP CONNECTION (90°)

ABBREVIATIONS

APP - AREA ALARM PANEL (MEDICAL GAS)	FOF - FUEL OIL FLOW	O2 - MEDICAL OXYGEN
AC - AIR COMPRESSOR OR AIR CONDITIONER	FOG - FUEL OIL GAUGE	OA - OUTDOOR AIR
ACC - ACCESS	FOR - FUEL OIL RETURN	OD - OUTSIDE DIAMETER OR OVERFLOW DRAIN
ACCU - AIR COOLED CONDENSING UNIT	FOS - FUEL OIL SUPPLY	OF - OWNER FURNISHED CONTRACTOR
AD - ACCESS DOOR OR AREA DRAIN	FOT - FLAT ON TOP	OCI - INSTALLED
ADB - ACID DILUTION BASIN	FR - FIRE RISER	OFCI - OWNER FURNISHED OWNER INSTALLED
ADJ - ADJUSTABLE	FS - FLOOR SINK OR FIRE SERVICE	P - PROPANE GAS
AFF - ABOVE FINISHED FLOOR	FSC - FIRE SUPPRESSION CONTRACTOR (DIVISION 21)	PS - PLUMBING CONTRACTOR (DIVISION 22)
AFG - ALTERNATE	FT - FEET	PC - OR PUMPED/CONDENSATE RETURN
ALT - ACCESS PANEL	FTG - FOOTING	PD - PUMP DISCHARGE OR PARAPET DRAIN
AP - APPROXIMATE	G - GAS OR NATURAL GAS	PV - POST INDICATOR VALVE
APPROX - APPROXIMATE	GA - GAUGE	PLBG - PLUMBING
AR - AIR RECEIVER OR ARGON	GAL - GALLONS	PS - PRE-ACTION/DELUGE SPRINKLER
ARCH - ARCHITECT OR ARCHITECTURAL	GALV - GALVANIZED	PRV - PRESSURE REGULATING VALVE
ASSY - ASSEMBLY	GC - GENERAL TRADES CONTRACTOR	PSF - POUNDS PER SQUARE FOOT
AV - ACID VENT	GD - GARAGE DRAINAGE	PSI - POUNDS PER SQUARE INCH
AW - ACID WASTE	GM - GALLONS PER MINUTE	PSV - PRESSURE SUSTAINING VALVE
BDD - BACK DRAFT DAMPER	GS - GAS SERVICE	PSG - POUNDS PER SQUARE INCH GAUGE
BDF - BACKFLOW PREVENTER	GW - GREASE WASTE	PW - PURE WATER
BDO - BUILDING	H2 - HYDROGEN	RA - RETURN AIR
BOB - BOTTOM OF BEAM	HB - HOSE BIBB	RAD - RADIUS
BOD - BOTTOM OF DUCT	HC - HVAC CONTRACTOR (DIVISION 23)	RCP - REINFORCED CONCRETE PIPE
BOE - BOTTOM OF EQUIPMENT	HD - HUB DRAIN	RD - ROOF DRAIN
BOP - BOTTOM OF FOOTING	HE - HELIUM	REC - RECESSED
BOS - BOTTOM OF GRILLE	HG - REFRIGERANT HOT GAS	RECD - REQUIRED
BOP - BOTTOM OF PIPE	HP - HORSEPOWER OR HIGH POINT	RI - ROUGH IN
BT - BATHTUB	HPC - HIGH PRESSURE CONDENSATE RETURN	RL - REFRIGERANT LIQUID
BTU - BRITISH THERMAL UNIT	HPS - HIGH PRESSURE STEAM SUPPLY	ROS - REVERSE OSMOSIS WATER SUPPLY
BTWN - BETWEEN	HPW - HIGH PURITY WATER	ROR - REVERSE OSMOSIS WATER RETURN
CB - CATCH BASIN	HPWR - HIGH PURITY WATER RETURN	RPM - REVOLUTIONS PER MINUTE
CBD - COUNTER BALANCED BACKDRAFT DAMPER	HR - HOSE REEL	RS - REFRIGERANT SUCTION
CB - CATCH BASIN	HT - HEAT TRACE	R - RELIEF VALVE
CC - CONTRACTOR FURNISHED CONTRACTOR INSTALLED	HTR - HEATER	SV - SPRINKLER (WET)
CCF - CUBIC FEET PER MINUTE	HW - HOT WATER	SA - SHOCK ARRESTOR OR SUPPLY AIR
CFM - CHILLED WATER SUPPLY	HWR - HEATING HOT WATER RETURN	SA - SANITARY OR SANITARY DRAIN
CHS - CHILLED WATER RETURN	SCH - SCHEDULE	SCW - SOFT COLD WATER
CI - CAST IRON	IA - MEDICAL INSTRUMENT AIR	SD - SPRINKLER DRAIN OR SUBSOIL DRAIN
CK - CLINICAL SINK	ID - INSIDE DIAMETER	SH - SHOWER
CL - CEILING	IN - INCHES	SHT - SHEET
CMU - CONCRETE MASONRY UNIT	IV - INDIRECT VENT	SK - SINK
CN - CLEAN OUT	IW - INDIRECT WASTE	SPEC - SPECIFICATIONS
C02 - MEDICAL CARBON DIOXIDE	JS - JANITOR SINK	SS - SQUARE
CONN - CONNECT OR CONNECTION	K - KITCHEN WASTE	SR - SUPPLY RISER
CONTR - CONTRACTOR	KEC - KITCHEN EQUIPMENT CONTRACTOR	SS - SANITARY STACK (SOIL OR WASTE) OR STAINLESS STEEL
CORR - CORRIDOR	KEC - KITCHEN EQUIPMENT CONTRACTOR	STD - STANDARD
COT - CENTER	K - KITCHEN WASTE	STM - STORM OR STORM DRAINAGE
CU - COPPER	KEC - KITCHEN EQUIPMENT CONTRACTOR	STRUC - STRUCTURAL OR STRUCTURE
CW - COLD WATER	K - KITCHEN WASTE	SUC - SITE UTILITY CONTRACTOR
CWS - COMBINATION WATER SERVICE OR CONDENSER WATER SUPPLY	KEC - KITCHEN EQUIPMENT CONTRACTOR	T - FUEL TANK VENT
CWR - CONDENSER WATER RETURN	L - LENGTH	TD - TRENCH DRAIN
D - DEPTH OR DRAIN LINE	LA - LABORATORY COMPRESSED AIR	TEMP - TEMPERATURE
DD - DECK DRAIN	LAV - LAVATORY	TOB - TOP OF BEAM
DET - DETAIL	LBS - POUNDS	TOE - TOP OF DUCT
DF - DRINKING FOUNTAIN OR WATER COOLER	LCW - LABORATORY COLD WATER	TOE - TOP OF EQUIPMENT
DFU - DI	LEC - LABORATORY EQUIPMENT CONTRACTOR	TOF - TOP OF FOOTING
D1 - DRAINAGE FIXTURE UNIT	LHW - LABORATORY HOT WATER	TOL - TOP OF JOIST
DIA - DEIONIZED WATER	LHW - LABORATORY HOT WATER RETURN	TOP - TOP OF PIPE
DM - DIAMETER	LPC - LOW PRESSURE CONDENSATE RETURN	TOS - TOP OF SLAB OR TOP OF STEEL
DS - DIMENSION	LPS - LOW PRESSURE STEAM SUPPLY	TF - TRAP FILLER
DN - DOWN	LV - LABORATORY VACUUM OR LABORATORY VENT	TP - TRAP PRIMER OR TRAP PRIMER DISCHARGE
DM - DOWN	LW - LABORATORY WASTE	TW - TEMPERED WATER
DT - DOWN SPOUT OR SPRINKLER (DRY) DRAWING	MA - MEDICAL COMPRESSED AIR	TRY - TYPICAL
DWG - DRAWING	MAP - MASTER ALARM PANEL (MEDICAL GAS)	U - URINAL
EA - EACH	MAX - MAXIMUM	UNO - UNLESS NOTED OTHERWISE
EC - ELECTRICAL CONTRACTOR (DIVISION 26)	MB - MOP BASIN	V - VENT OR SANITARY SEWER VENT
EEW - EMERGENCY EYE WASH	MC - MECHANICAL CONTRACTOR (DIVISION 23)	V - VACUUM
EJ - EXPANSION JOINT	MEZZ - MEZZANINE	VAC - VACUUM
ELEV - ELECTRICAL	MFR - MANUFACTURER	VC - VACUUM CLEANING
ELEV - ELEVATOR	MH - MANHOLE	VCV - VACUUM CLEANING VALVE
EQ - EQUAL	MIN - MINIMUM OR MINUTE	VE - VACUUM EXHAUST
EQUIP - EQUIPMENT	MISC - MISCELLANEOUS	VEL - VELOCITY
ETR - EXPANSION TANK	MTD - MOUNTED	VIB - VIBRATION IN BOX
ETR - EXISTING TO REMAIN	MTG - MOUNTING	VOL - VOLUME
ES - EMERGENCY SHOWER	MPC - MEDIUM PRESSURE CONDENSATE RETURN	VP - VACUUM PUMP
ES - EQUIPMENT SUPPLIER	MPS - MEDIUM PRESSURE STEAM SUPPLY	VS - VENT STACK
EWG - ELECTRICAL WATER COOLER	MU - WATER MAKE-UP	VTR - VENT THROUGH ROOF
EXH - EXHAUST AIR	MV - MEDICAL SURGICAL VACUUM	VR - VENT RISER
EXP - EXPANSION	N2 - MEDICAL NITROGEN	W/ - WITH
EXT - EXTERIOR	NG - GASOLINE (NON-LEAD)	W/ - WITHOUT
EXT - EXISTING	NO - NOT IN CONTRACT	W - WASTE
F - FIRE SUPPRESSION (STANDPIPE/SPRINKLER MAIN)	NO - MEDICAL NITROUS OXIDE	WAGD - WASTE ANESTHESIA GAS DISPOSAL
FCE - FIRE CONTROL EQUIPMENT	NOM - NOMINAL	WC - WATER CLOSET
FCO - FLOOR CLEANOUT	NPW - NON-POTABLE WATER	WCL - WALL CLEANOUT
FD - FLOOR DRAIN	NPT - NATIONAL PIPE THREAD	WH - WALL HYDRANT OR WATER HEATER
FDC - FIRE DEPARTMENT CONNECTION	NTS - NOT TO SCALE	WIV - WALL INDICATOR VALVE
FDV - FIRE DEPARTMENT VALVE		WS - WATER SERVICE
FE - FINISHED FLOOR ELEVATION		YCO - YARD CLEANOUT
FLR - FLOOR		ZVC - ZONE VALVE CABINET
FLC - FIRE HOSE CABINET		
FLR - FLOOR		
FM - FORCE MAIN		
FOB - FLAT ON BOTTOM		

INDEX OF DRAWINGS

Sheet Number	LEGEND & SYMBOLS	Description
FX001		
115FX100		BASEMENT PLAN - NEW WORK
127FX100		BASEMENT & ATTIC PLANS - NEW WORK
310FX101		FIRST FLOOR PLAN - NEW WORK
310FX102		SECOND FLOOR PLAN - NEW WORK
310FX103		THIRD FLOOR PLAN - NEW WORK
310FX104		FOURTH FLOOR PLAN - NEW WORK
330FX101		FIRST FLOOR PLAN - NEW WORK
330FX102		SECOND FLOOR PLAN - NEW WORK
330FX105		FIFTH FLOOR PLAN - NEW WORK
330FX106		SIXTH FLOOR PLAN - NEW WORK
330FX107		SEVENTH FLOOR PLAN - NEW WORK
330FX108		EIGHTH FLOOR PLAN - NEW WORK
330FX109		NINTH FLOOR PLAN - NEW WORK
408FX100		FIRST FLOOR PLAN - NEW WORK
409FX100		BASEMENT PLAN - NEW WORK
409FX101		FIRST FLOOR PLAN - NEW WORK
409FX102		SECOND FLOOR PLAN - NEW WORK
409FX103		THIRD FLOOR PLAN - NEW WORK
410FX100		BASEMENT PLAN - NEW WORK

NOTE: ALL SYMBOLS AND ABBREVIATIONS ARE SUBJECT TO MODIFICATIONS ON OTHER DRAWINGS.

ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.

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HEAPY PROJECT No.: 2014-04020 FIRM LICENSE No.: 91528



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LEGEND & SYMBOLS

REPLACE SPRINKLER HEADS

Location DAYTON, OHIO

Date 11/07/2014

Checked RLT

Drawn DPB

Project No. VA Project No. 552-16-203

Building Number 0

Drawing Number

FX001

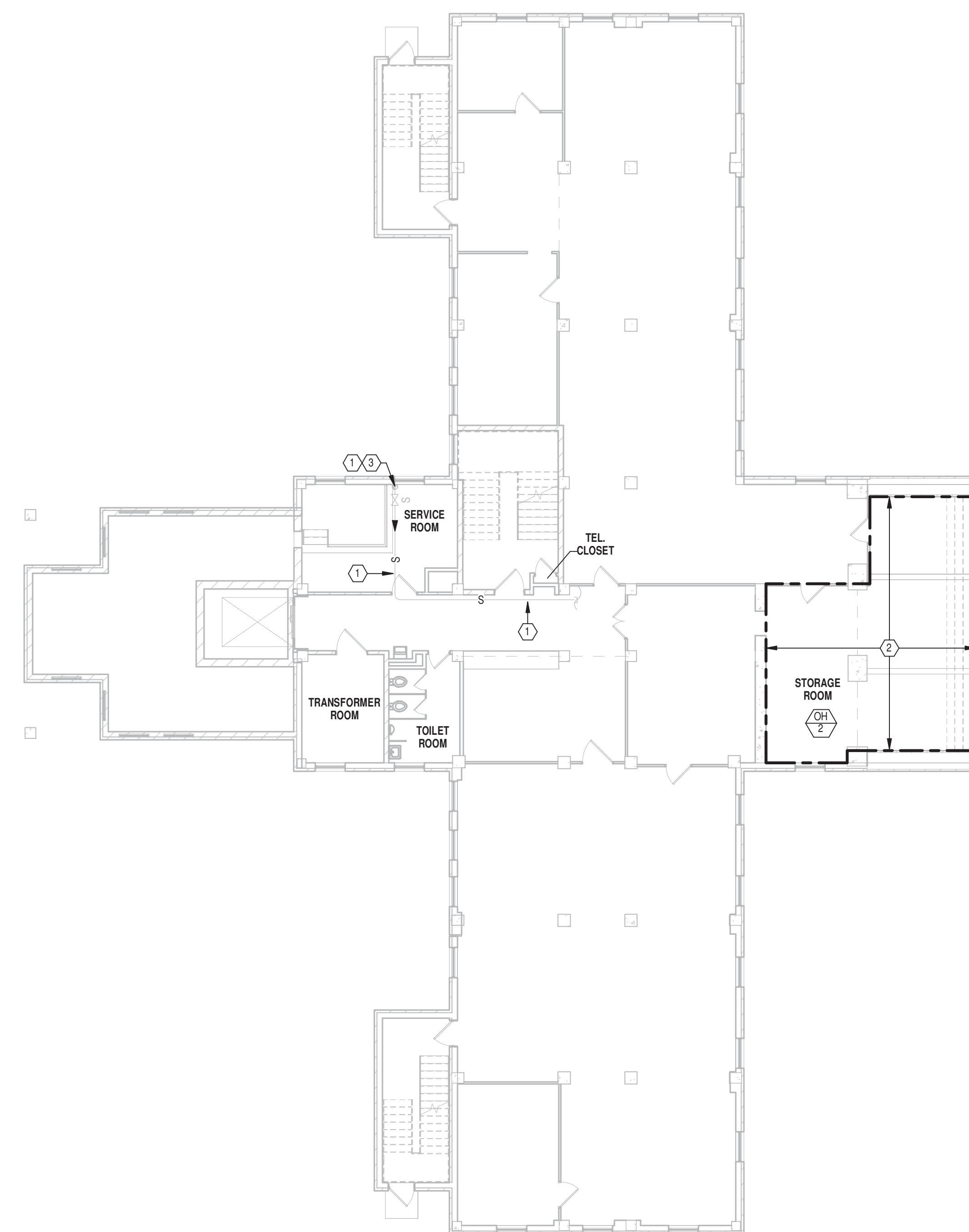
Dwg. of


Office of Construction and Facilities Management



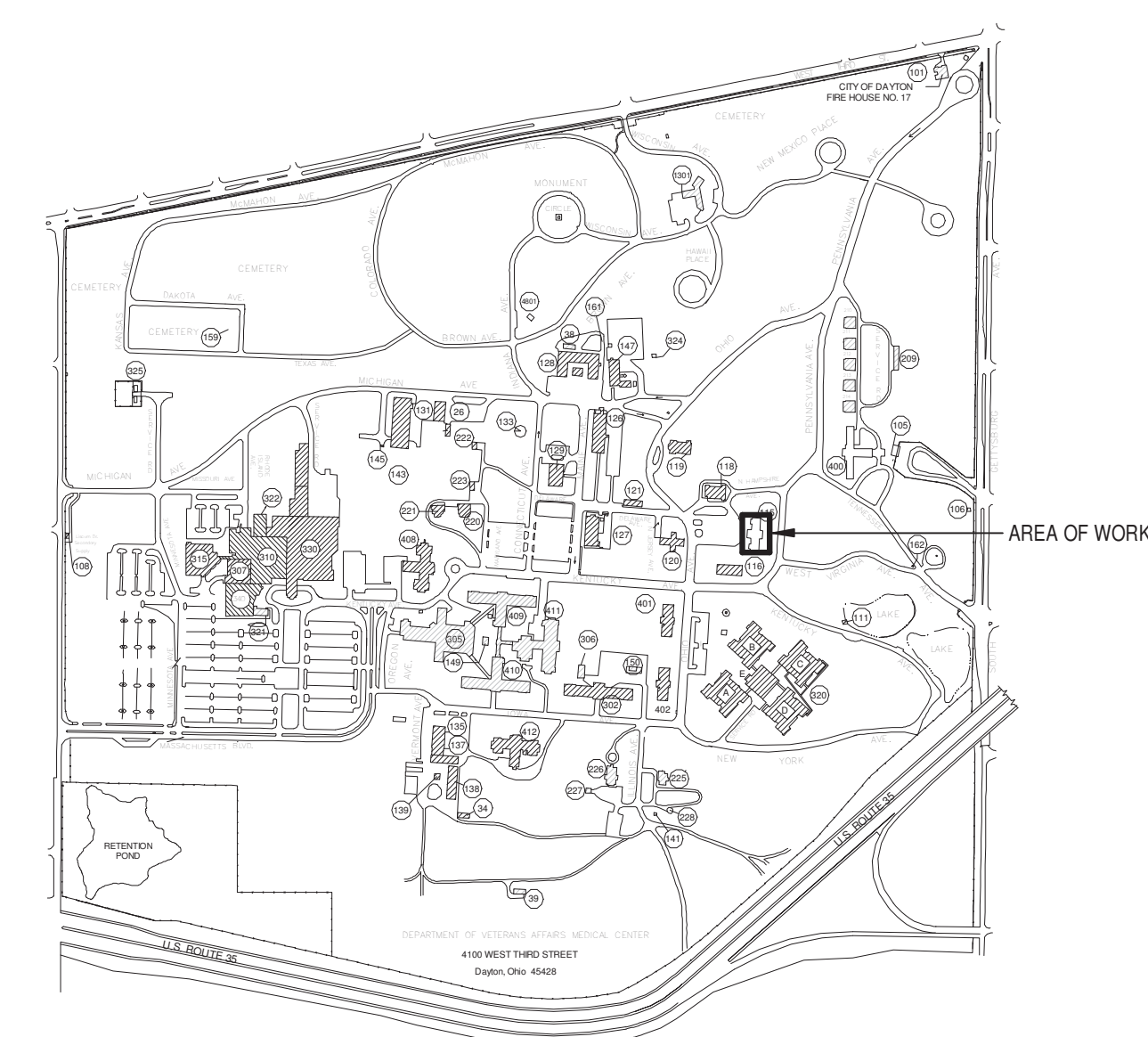
- 1 EXISTING TO REMAIN.
- 2 ADD NEW SPRINKLERS AND ESCUTCHEONS IN AREA INDICATED SERVED FROM
EXISTING WET-PIPE FIRE SUPPRESSION SPRINKLER SYSTEM. NEW SPRINKLER
SYSTEM AREA SHALL CONFORM TO NFPA 13.
- 3 EXISTING 3" FIRE RISER.

STATIC PRESSURE: 68 PSI
RESIDUAL PRESSURE: 66 PSI
FLOW RATE: 946 GPM
DATE: JUNE 11, 2014



 **BASEMENT PLAN**
Scale: 3/32" = 1'-0"

**DELETE ALL WORK IN THIS BUILDING UNDER
BID ITEM 3 (DEDUCT ALTERNATE #2)**



KEYPLAN
Scale: 1" = 800'-0"

[illegible]

1 EXISTING TO REMAIN.

- 1 EXISTING TO REMAIN.
- 2 REPLACE EXISTING HORIZONTAL SIDEWALL DRY PENDENT TYPE SPRINKLER AND
- 3 ESCUTCHEON IN AREA INDICATED WITH NEW QUICK RESPONSE HORIZONTAL SIDEWALL
- 4 DRY PENDENT TYPE SPRINKLER AND ESCUTCHEONS.
- 5 EXISTING 8" FIRE RISER.
- 6 AREA NOT SPRINKLERED.
- 7 PROVIDE NEW SPRINKLER(S) AND ESCUTCHEON(S) IN AREA INDICATED. SERVED FROM
- 8 EXISTING 8" FIRE PIPE SUPPRESSION SPRINKLER SYSTEM SERVING ADJACENT
- 9 SPACE/ROOM.
- 10 REPLACE EXISTING WET PIPE FIRE SUPPRESSION SPRINKLERS AND ESCUTCHEONS WITH
- 11 NEW SPRINKLERS AND ESCUTCHEONS IN AREAS INDICATED. THE INTENT OF
- 12 PROJECT IS TO REPLACE SPRINKLERS AND ESCUTCHEONS ONE-FOR-ONE. IF DIVISION
- 13 PROJECTOR DOES NOT OBSERVE A DEFICIENT NUMBER OF OR SURPLUS NUMBER OF
- 14 SPRINKLERS SERVING ANY SPACE, CONTRACTOR SHALL REPLACE EXISTING
- 15 SPRINKLERS AND PROVIDE DOCUMENTED INFORMATION INCLUDING BUT NOT LIMITED
- 16 TO: LOCATION OF SPACE DEFICIENCY/EXCEPTION, AND RECOMMENDED ACTION TO
- 17 PROJECT COR IN TABULAR FORM.
- 18 RELOCATE EXISTING SPRINKLER(S) IN AREA INDICATED TO AVOID PATIENT LIFT TRACK
- 19 OBSTRUCTIONS. COORDINATE ALL WORK WITH EXISTING LOCATION OF PATIENT LIFT
- 20 TRACK AND ALL EXTRANEOUS STRUCTURAL MEMBERS AND SUPPORTS.
- 21 PROVIDE NEW ESCUTCHEON FOR EXISTING SPRINKLER IN AREA INDICATED.
- 22 COORDINATE WITH DIVISION PROJECTOR TO REPLACE EXISTING QUICK RESPONSE SPRINKLER TO
- 23 MAINTAIN UL LISTING AND FM APPROVAL.

STATIC PRESSURE: 70 PSI
 RESIDUAL PRESSURE: 66 PSI
 FLOW RATE: 840 GPM
 DATE: JUNE 20, 2014



Scale: N.T.S.

[illegible]

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FIRST FLOOR PLAN - NEW WORK

REPLACE SPRINKLER HEADS

Location DAYTON, OHIO

Date 11/07/2014

Project No.	VA Project No. 552-16-203
-------------	---------------------------


Building Number
310

Drawing Number
310FX10

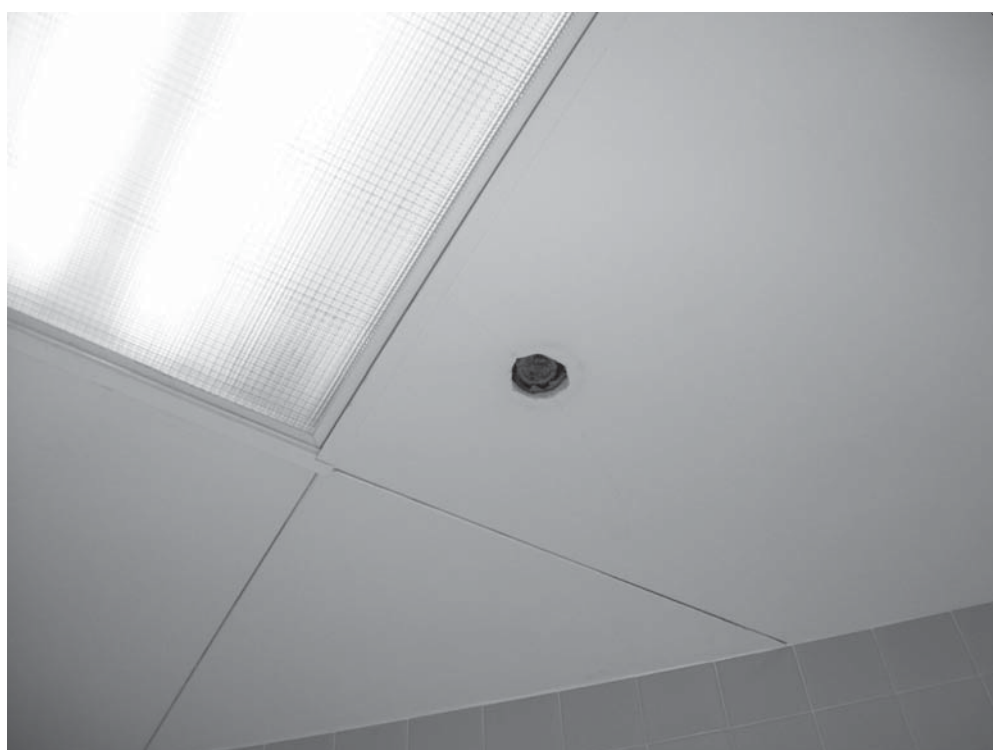
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and Facilities
Management



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and Facilities
Management

 Department of
Veterans Affairs

three inches = one foot
one and one-half inches = one foot
three-quarters inch = one foot
one-half inch = one foot
three-eighths inch = one foot
one-quarter inch = one foot
one-eighth inch = one foot



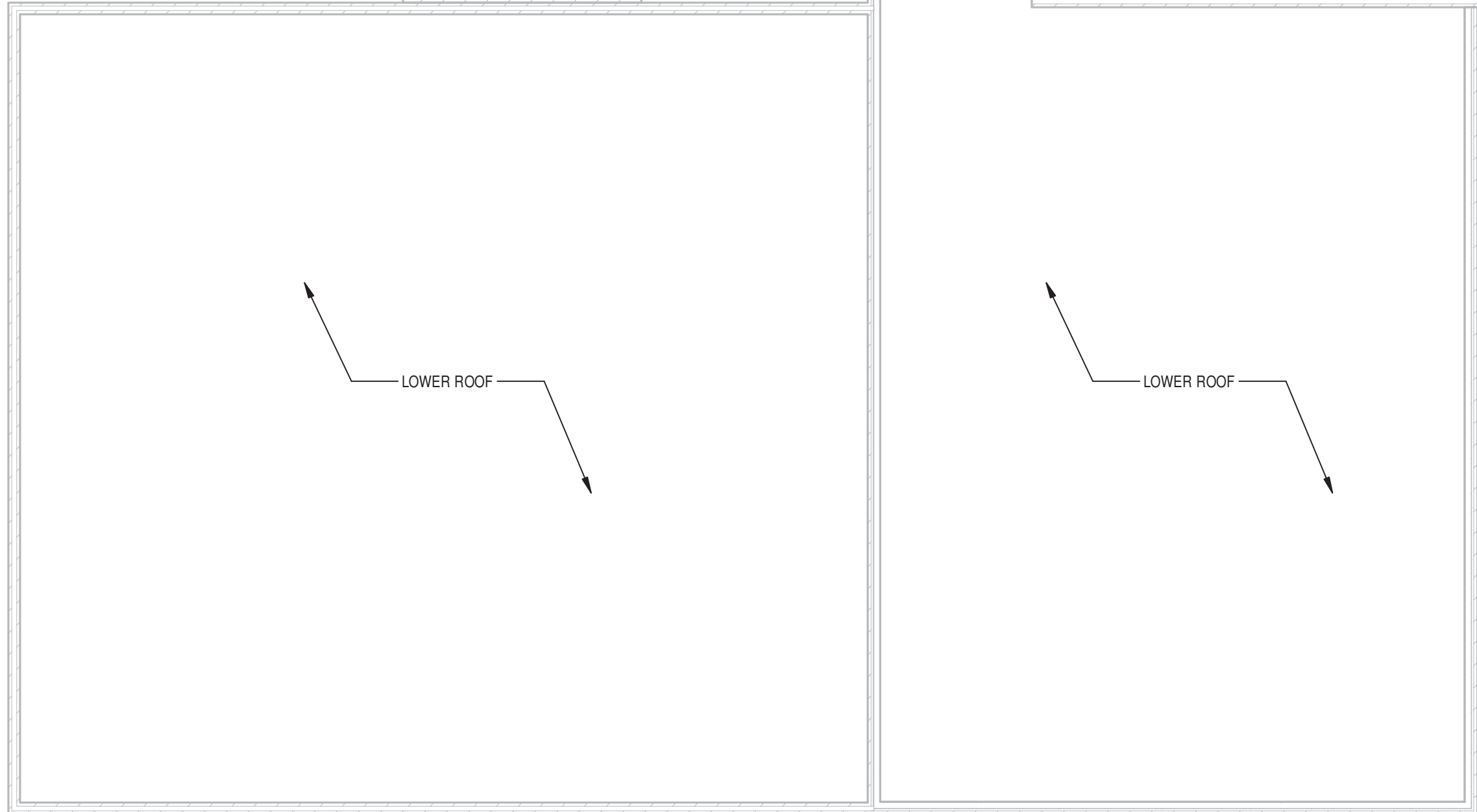
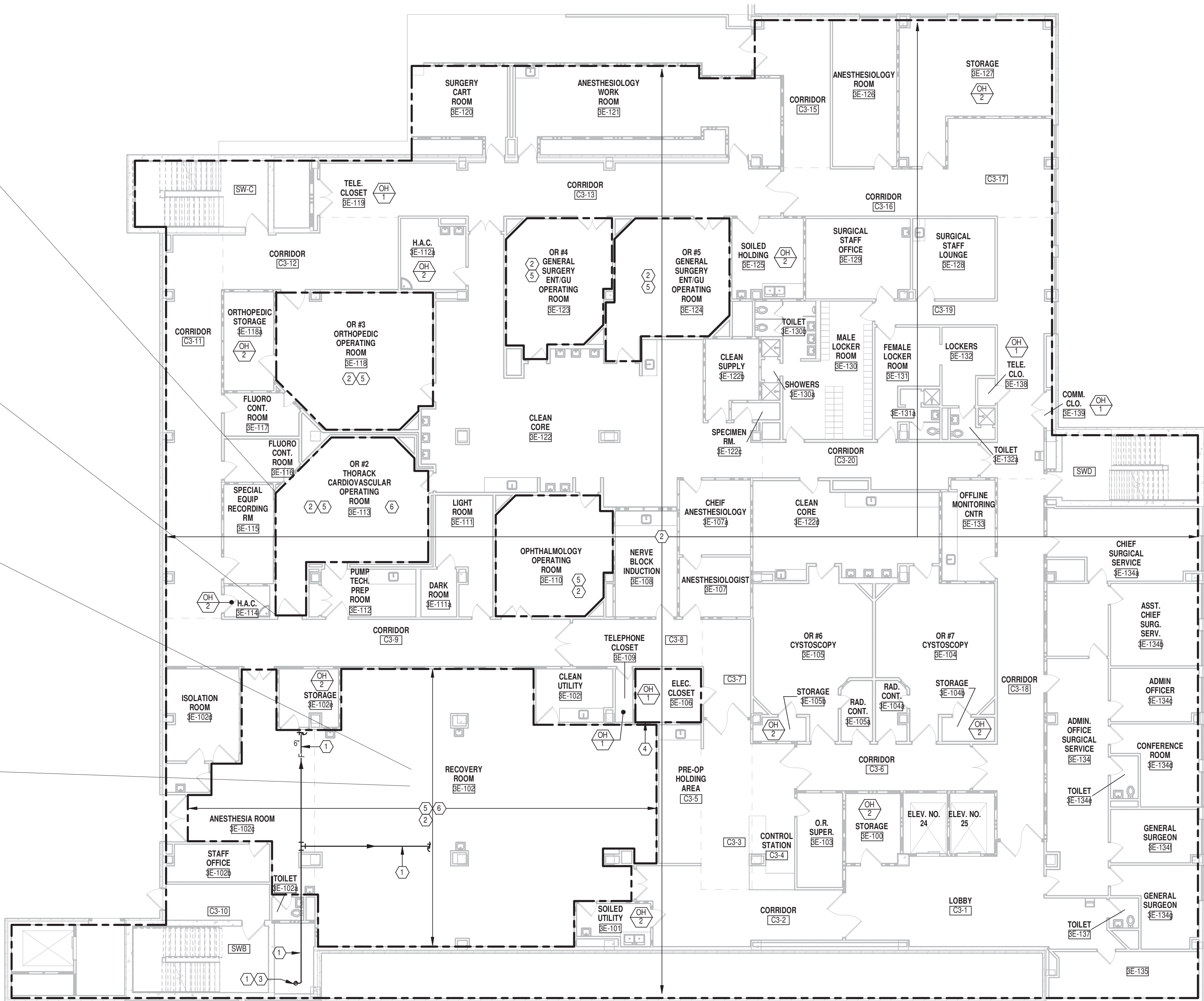
TYPICAL MISSING SPRINKLER COVER

Scale: N.T.S.



TYPICAL CONCEALED SPRINKLER

Scale: N.T.S.



THIRD FLOOR PLAN
Scale: 3/32" = 1'-0"

GENERAL NOTES

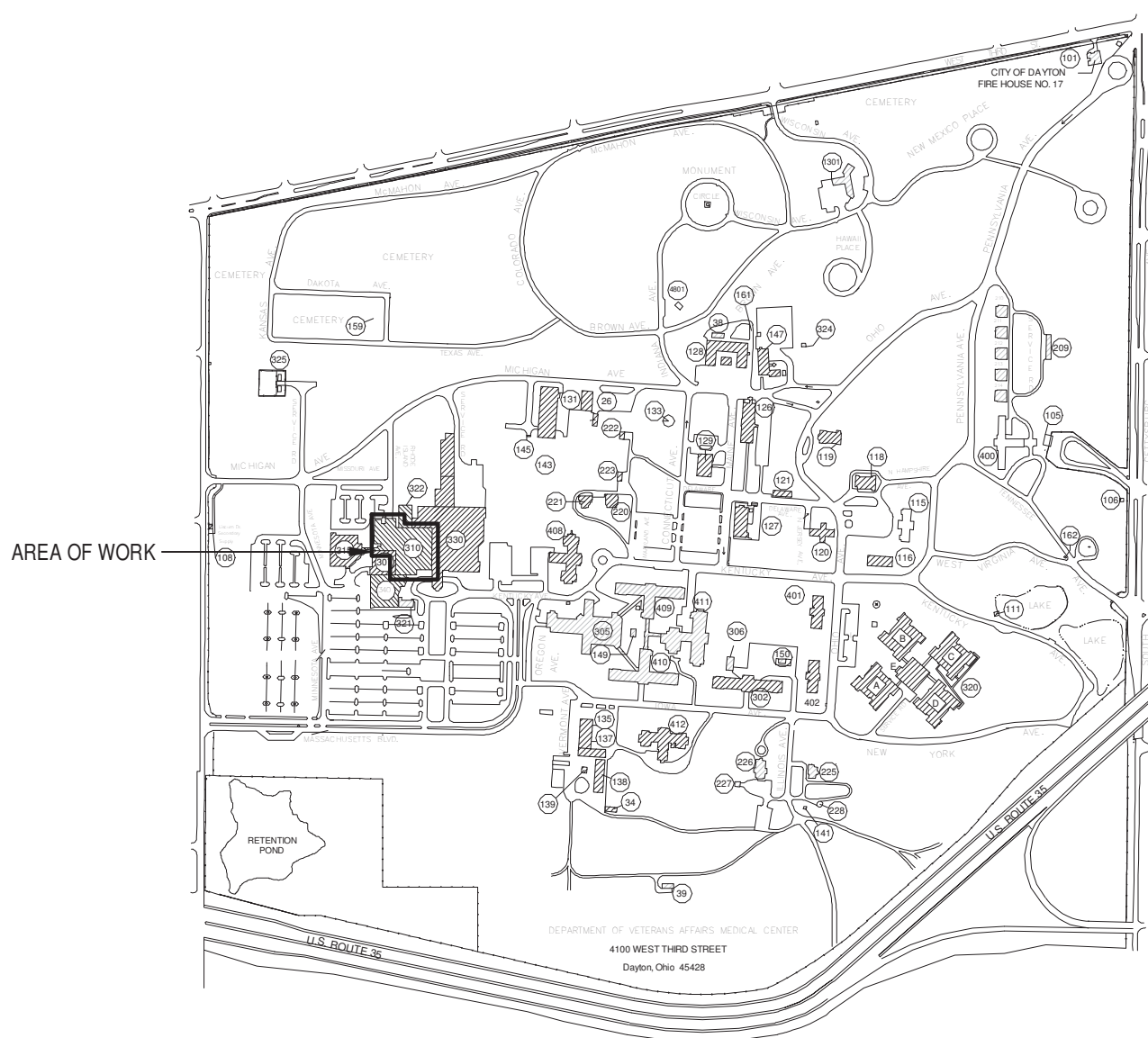
A REFER TO SHEET FX001 FOR FIRE SUPPRESSION SYSTEM DESIGN NOTES.

PLAN NOTES

- EXISTING TO REMAIN.
- REPLACE EXISTING WET-PIPE FIRE SUPPRESSION SPRINKLERS AND ESCUTCHEONS WITH NEW SPRINKLERS AND ESCUTCHEONS IN AREAS INDICATED. THE INTENT OF PROJECT IS TO REPLACE SPRINKLERS AND ESCUTCHEONS ONE-FOR-ONE. IF DIVISION 21 CONTRACTOR SHOULD OBSERVE A DEFICIENT NUMBER OF OR SURPLUS OF SPRINKLERS SERVING ANY SPACE, CONTRACTOR SHALL REPLACE SPRINKLERS AND PROVIDE DOCUMENTED INFORMATION INCLUDING BUT NOT LIMITED TO: LOCATION OF SPACE, DEFICIENCY/SURPLUS, AND RECOMMENDED ACTION TO THE PROJECT COR IN TABULAR FORM.
- EXISTING 8" FIRE RISER.
- PROVIDE NEW SPRINKLER(S) AND ESCUTCHEON(S) IN AREA INDICATED SERVED FROM EXISTING WET-PIPE FIRE SUPPRESSION SPRINKLER SYSTEM SERVING ADJACENT SPACE/ROOM.
- CONCEALED TYPE SPRINKLER IN THIS ROOM.
- REPLACE MISSING CONCEALED TYPE SPRINKLER ESCUTCHEON.


FLOW TEST DATA

STATIC PRESSURE: 70 PSI
RESIDUAL PRESSURE: 66 PSI
FLOW RATE: 840 GPM
DATE: JUNE 20, 2014



KEYPLAN
Scale: 1" = 800'-0"

<div>11/6/2014 2:17:17 PM</div> <table><tr><td>Revisions</td><td>Date</td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>	Revisions	Date							CONSULTANTS: <div><div>Heapy Engineering MEP Design Technology Planning Commissioning Energy Nationally Recognized Leader in Sustainability 1400 W Dorothy Lane, Dayton, OH 45409-1310 Ph 937-224-0861 Fax 937-224-5777 www.heapy.com HEAPY PROJECT No.: 2014-04020 FIRM LICENSE No.: 91528</div></div>	<div></div>	ARCHITECT/ENGINEERS: <div><div>ASA ALAN SCHERR ASSOCIATES 33 WEST FIRST STREET SUITE NUMBER 440 DAYTON, OHIO 45402 PH: 937-222-4505 FX: 937-222-4520</div></div>	Drawing Title THIRD FLOOR PLAN - NEW WORK Approved: Project Director	Project Title REPLACE SPRINKLER HEADS Location DAYTON, OHIO Date 11/07/2014 Checked by RLT Drawn by DPB	Project No. VA Project No. 552-16-203 Building Number 310 Drawing Number 310FX103 Dwg. of	Office of Construction and Facilities Management Department of Veterans Affairs
	Revisions	Date													

Project Title REPLACE SPRINKLER HEADS		Project No. VA Project No. 552-16-203		<div>Office of Construction and Facilities Management</div> <div>  Department of Veterans Affairs </div>
Location DAYTON, OHIO		Building Number 310		
Date 11/07/2014		Drawing Number 310FX104		
Checked RLT	Drawn DPB	Dwg. of		

three inches = one foot
one and one-half inches = one foot
one inch = one foot
three-quarters inch = one foot
one-half inch = one foot
three-eighths inch = one foot
one-quarter inch = one foot
one-eighth inch = one foot

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GENERAL NOTES

A REFER TO SHEET FX001 FOR FIRE SUPPRESSION SYSTEM DESIGN NOTES.

PLAN NOTES

- EXISTING TO REMAIN.
- REPLACE EXISTING WET-PIPE FIRE SUPPRESSION SPRINKLERS AND ESCUTCHEONS WITH NEW SPRINKLERS AND ESCUTCHEONS IN AREAS INDICATED. THE INTENT OF THE PROJECT IS TO REPLACE SPRINKLERS AND ESCUTCHEONS ONE-FOR-ONE. IF DIVISION 51 CONTRACTOR SHOULD OBSERVE A DEFICIENT NUMBER OF OR SURPLUS NUMBER OF SPRINKLERS SERVING ANY SPACE. CONTRACTOR SHALL REPLACE EXISTING SPRINKLERS AND PROVIDE DOCUMENTED INFORMATION INCLUDING BUT NOT LIMITED TO: LOCATION OF SPACE, DEFICIENCY/EXCEPTION, AND RECOMMENDED ACTION TO THE PROJECT COR IN TABULAR FORM.
- REMOVE EXISTING SPRINKLERS AND LOCATE NEW SPRINKLERS IN AREA INDICATED TO AVOID PATIENT LIFT TRACK OBSTRUCTIONS. COORDINATE ALL WORK WITH EXISTING LOCATION OF PATIENT LIFT TRACK AND ALL EXTRANEOUS STRUCTURAL MEMBERS AND SUPPORTS.

FLOW TEST DATA

STATIC PRESSURE: 70 PSI
RESIDUAL PRESSURE: 66 PSI
FLOW RATE: 1052 GPM
DATE: JUNE 19, 2014

SECOND FLOOR PLAN

Scale: 1/16" = 1'-0"

KEYPLAN

Scale: 1" = 800'-0"

CONSULTANTS:

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FX: 937-222-4520

SECOND FLOOR PLAN - NEW WORK

REPLACE SPRINKLER HEADS

DAYTON, OHIO

11/07/2014

RLT

DPB

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and Facilities
Management

Department of
Veterans Affairs

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